Subject Index to Volume 45 (1997)

James Herbert Shea

Advertisers

70 Amer. Geophys. Union
179 Geoblox
192 Georgia State University, Atlanta
277 American Association of Petroleum Geologists
362 Geological Society of America
400 Whitman College
463 EME, Inc.
469 EME, Inc.

American Geological Institute

Apparatus

38-45 Philpotts, A.R., Gray, N.H., Carroll, M., Steinen, R., and Reid, J.B.
The electronic total station – A versatile, revolutionary new geological mapping tool

150-152 Busse, P.L.
Computer plotting of a contour profile by precollege students using NIH *Image*

157-161 Stern, L.A., Chamberlain, C.P., Blum, J.D., and Fogel, M.L.
Isotopic lessons in a beer bottle

243-245 Aydal, D., Kilinc, A.I., and Phillips, M.
Using powder x-ray diffraction in the undergraduate curriculum to determine total iron in rocks and minerals

317-321 Garlick, G.D.
Reflections on x-ray diffraction

Areal Geology – General

Areal Geology – Maps, Charts, Photographs

27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts

38-45 Philpotts, A.R., Gray, N.H., Carroll, M., Steinen, R., and Reid, J.B.
The electronic total station – A versatile, revolutionary new geological mapping tool

150-152 Busse, P.L.
Computer plotting of a contour profile by precollege students using NIH *Image*

201-202 Schmidt, M.F. Jr.
Cover photograph of cliffs on the Na Pali Coast, Hawaii

211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards

221-224 Dickinson, W.W., and Hill, N.L.
An introductory field exercise on topographic mapping

344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction

381-385 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – Paper cores and problem solving

401-402 Carson, R.J.
Cover photograph of folded early Tertiary clastics along Adriatic coast

Astronomy

167-172 Megzger, E.P.
The STRATegy COLUMN for precollege science teachers – Expand your universe

215 Cromer, A.
Food for thought

216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses

252-254 Picard, M.D.
A week in April

271 Trefil, J.
Food for thought

378-380 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 8. Wrong-way precession as a consequence of not thinking things through

470-472 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – The Journal of Areological Education

Cartoons

21 Fischman, S.
Cartoon on La Brea fossils and contemporary television

122 Fischman, S.
Cartoon on prehistoric humans and fast food

220 Fischman, S.
Cartoon on T. rex and self esteem

325 Fischman, S.
Cartoon on trilobites

411 Fischman, S.
Cartoon about hot-blooded dinosaurs

Earth Science (general)

Earth Science – Teaching & Curriculum

65-68 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – From mountains to monsoons

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

173-176 Schimmrich, S.H.
Exploring geology on the world-wide web – Hydrology and hydrogeology

216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses

234-237 Drake, J.C., Worley, I.A., and Mehrtens, C.J.
An introductory-level field-based course in geology and botany

262-267 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – New views of the sea floor

273-276 Schimmrich, S.H.
Exploring geology on the world-wide web – Remote sensing and geographic information systems

308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

381-385 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – Paper cores and problem solving

Earth Science – Teacher Education

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers

304-307 Slater, T.F., Goering, K., and Slater, K.H.
Science picnics for a lifelong-learning community

412-414 King, H.M., and Dodson, R.L.
Integrating subdisciplines into upper-level geology courses

Economic Geology – General and Mining Geology

415-424 Mirsky, A.
Influence of geologic factors on ancient Egyptian civilization

Economic Geology – Energy Sources

54-59 Picard, M.D.
Fossil fuels inventory – Into the cold and dark?

Economic Geology – Metals

Economic Geology – Nonmetals

Education (general)

2 Shea, J.H.
The trivialization of factual knowledge [Editorial]

26 Guilder, G.
Food for thought

46-48 Macdonald, H.
1996 NAGT Presidential address – Geoscience education and modern career paths

60 Tewksbury, B.
Call for examples for book on effective and innovative teaching in the geosciences

102 Shea, J.H.
Progress on science-education standards [Editorial]

116 Henry, W.A. III
Food for thought

153-156 Smith, J.V.
A non-hierarchical rock-identification scheme

202 Shea, J.H.
Student evaluations of teaching [Editorial]

206 Shea, J.H.
Food for thought

293-294 Leveson, D.
The trivialization of factual knowledge [Letter]

302 Shea, J.H.
The "science wars" of the late 20th century [Editorial]

348 Sykes, C.J.
Food for thought

372 Kopp, O.C.
Student evaluations [Letter]

385 Shanker, A.
Food for thought

Education – Audio Visual

10-21 Kali, Y., Orion, N., and Mazor, E.
Software for assisting high-school students in the spatial perception of geological structures

26 Guilder, G.
Food for thought

137-146 Rosenberg, G.D.
A lesson in plate tectonics from art

180 Jorstad, R.B.
Down-to-Earth software reviews

186 Anonymous
Ad for NAGT slide sets and poster

195-196 Spencer, D.A.
Videos for geoscientists – Geotectonics in Himalayas

246-251 Gore, P.J.W.
Using the world-wide web in the geology classroom

Education – Computer Assisted

10-21 Kali, Y., Orion, N., and Mazor, E.
Software for assisting high-school students in the spatial perception of geological structures

60 Tewksbury, B.
Call for examples for book on effective and innovative teaching in the geosciences

61-63 Schimmrich, S.H.
Exploring geology on the world-wide web – Glaciers and climate change

65-68 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – From mountains to monsoons

81 Cambrian Systems, Inc.
Geoscience education through intelligent tutors (GETIT)

89 Harder, V.
NAGT on the WWW

147-149 Miller, J.W. Jr., and Manns, M.L.
Expert systems as a tool for teaching mineral and rock identification

150-152 Busse, P.L.
Computer plotting of a contour profile by precollege students using NIH *Image*

153-156 Smith, J.V.
A non-hierarchical rock-identification scheme

173-176 Schimmrich, S.H.
Exploring geology on the world-wide web – Hydrology and hydrogeology

180 Jorstad, R.B.
Down-to-Earth software reviews

205-206 Amenta, R.V., Holyoke, C.W., Krohn, T.G.M., Bonder, M.J., and Leopold, M.C.
Undergraduate research in petrology approached through computer modeling of fabric evolution in igneous rocks

211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards

246-251 Gore, P.J.W.
Using the world-wide web in the geology classroom

273-276 Schimmrich, S.H.
Exploring geology on the world-wide web – Remote sensing and geographic information systems

308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

331-336 Hayward, R.K., Shebesta, D.Y., and Lowell, T.V.
Computerized image analysis of outcrops

349-353 Johnson, M.C., and Guth, P.L.
A realistic microcomputer exercise designed to teach geologic reasoning

369-372 Rose, S.E.
A spreadsheet approach to the hydrological cycle

428-439 Berger, W.H.
Experimenting with ice-age cycles in a spreadsheet

451-455 Guth, P.L.
Teaching plate tectonics and marine geophysics to introductory students with a microcomputer

Education – Geoscience

2 Shea, J.H.
The trivialization of factual knowledge [Editorial]

4-9 Cooke, M.L., Anderson, K.S., and Forrest, S.E.
Creating accessible introductory-geology field trips

46-48 Macdonald, H.
1996 NAGT Presidential address – Geoscience education and modern career paths

49-51 Ethington, R., and Freeman, T.
Tom Freeman – 1996 Neil Miner awardee

61-63 Schimmrich, S.H.
Exploring geology on the world-wide web – Glaciers and climate change

68 Macdonald, H.
Announcement of workshops on effective and innovative teaching

73 Christman, R.A.
Call for nominations for Neil Miner Award

74-76 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 5. Crystallization temperature and weathering susceptibility

81 Cambrian Systems, Inc.
Geoscience education through intelligent tutors (GETIT)

88 Macdonald, H.
Announcement of workshop on innovative teaching and course design

100 Ireton, M.F.
Announcement of GeoSciEd II international conference on geoscience education

102 Shea, J.H.
Progress on science-education standards [Editorial]

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

105-108 Bevier, M.L., Thompson, J.C., Evenchick, C.A., and Wyss, J.A.
Making geoscience relevant to First Nations' students from the north coast of British Columbia

109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems

113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers

117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum

129-132 Orion, N., Ben-Chaim, D., and Kali, Y.
Relationship between earth-science education and spatial visualization

137-146 Rosenberg, G.D.
A lesson in plate tectonics from art

153-156 Smith, J.V.
A non-hierarchical rock-identification scheme

193 Tewksbury, B.
Call for examples of effective and innovative teaching techniques for NAGT publication

202 Shea, J.H.
Student evaluations of teaching [Editorial]

207-210 Caprariis, P.P. de
Impediments to providing scientific literacy to students in introductory survey courses

211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards

216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses

229-234 Ettensohn, F.R.
An experiment in collaborative mapping at geology field camp

234-237 Drake, J.C., Worley, I.A., and Mehrtens, C.J.
An introductory-level field-based course in geology and botany

238-242 Astwood, P.M., and Slater, T.F.
Effectiveness and management of portfolio assessment in high-enrollment courses

246-251 Gore, P.J.W.
Using the world-wide web in the geology classroom

272 Tewksbury, B.
Call for examples of effective and innovative teaching in the geosciences

293-294 Leveson, D.
The trivialization of factual knowledge [Letter]

294 Riggs, E.M.
Geoscience versus the spread of psuedoscience [Letter]

295-297 Tewksbury, B.
1997-98 NAGT Distinguished Speakers Program

308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

314-316 Wells, N.A.
Class journals, grading writing, and teaching writing style

322-325 Foos, A.M.
Integration of a class research project into a traditional geochemistry lab course

331-336 Hayward, R.K., Shebesta, D.Y., and Lowell, T.V.
Computerized image analysis of outcrops

344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction

354-358 O'Connell, S.B.
Communicating science in general-education science courses with popular-science books

378-380 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 8. Wrong-way precession as a consequence of not thinking things through

402 Shea, J.H.
Beginning a new academic year [Editorial]

412-414 King, H.M., and Dodson, R.L.
Integrating subdisciplines into upper-level geology courses

415-424 Mirsky, A.
Influence of geologic factors on ancient Egyptian civilization

440-446 Stockman, S.A., Sauber, J.M., and Linscheid, E.K.
A high school and NASA join forces to investigate the Alaska/Aleutian subduction zone near Kodiak Island

447-450 Bluth, G.J.S., and Young, C.T.
An applied geophysics laboratory for introductory environmental-geology courses

460-462 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 9. Misconceptions of ground-water's capillary fringe

470-472 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – The Journal of Areological Education

Education – Graduate

27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts

89 Anonymous
Free NAGT memberships for outstanding teaching assistants

157-161 Stern, L.A., Chamberlain, C.P., Blum, J.D., and Fogel, M.L.
Isotopic lessons in a beer bottle

161 Anonymous
Announcement of free NAGT memberships for outstanding undergraduate and graduate teaching assistants

Education – Laboratory

60 Tewksbury, B.
Call for examples for book on effective and innovative teaching in the geosciences

359-362 Hodder, A.P.W.
A geotechnical approach to weathering simulation

404-411 Rich, C.C., and Onasch, C.M.
An introductory-geology laboratory exercise on ground-water-pollution potential using the DRASTIC system

447-450 Bluth, G.J.S., and Young, C.T.
An applied geophysics laboratory for introductory environmental-geology courses

Education – Museum

Education – Outside United States

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

105-108 Bevier, M.L., Thompson, J.C., Evenchick, C.A., and Wyss, J.A.
Making geoscience relevant to First Nations' students from the north coast of British Columbia

117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum

Education – Precollege

10-21 Kali, Y., Orion, N., and Mazor, E.
Software for assisting high-school students in the spatial perception of geological structures

65-68 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – From mountains to monsoons

81 Cambrian Systems, Inc.
Geoscience education through intelligent tutors (GETIT)

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers

117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum

150-152 Busse, P.L.
Computer plotting of a contour profile by precollege students using NIH *Image*

167-172 Megzger, E.P.
The STRATegy COLUMN for precollege science teachers – Expand your universe

262-267 Megzger, E.P.
The STRATegy COLUMN for precollege science teachers – New views of the sea floor

304-307 Slater, T.F., Goering, K., and Slater, K.H.
Science picnics for a lifelong-learning community

381-385 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – Paper cores and problem solving

425-427 Shepherd, R.G., and Ellis, B.N.
Leonardo da Vinci's tree and the law of channel widths – Combining quantitative geomorphology and art in education

440-446 Stockman, S.A., Sauber, J.M., and Linscheid, E.K.
A high school and NASA join forces to investigate the Alaska/Aleutian subduction zone near Kodiak Island

470-472 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – The Journal of Areological Education

Education – Science

2 Shea, J.H.
The trivialization of factual knowledge [Editorial]

61-63 Schimmrich, S.H.
Exploring geology on the world-wide web – Glaciers and climate change

68 Macdonald, H.
Announcement of workshops on effective and innovative teaching

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

123-128 Spencer, P.K.
The method of multiple working hypotheses in undergraduate education with an example of its application and misapplication

207-210 Caprariis, P.P. de
Impediments to providing scientific literacy to students in introductory survey courses

216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses

295-297 Tewksbury, B.
1997-98 NAGT Distinguished Speakers Program

302 Shea, J.H.
The "science wars" of the late 20th century [Editorial]

308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

354-358 O'Connell, S.B.
Communicating science in general-education science courses with popular-science books

Education – Special Clientele (Adult Students, General Public, Learning Disabled, Physically handicapped)

4-9 Cooke, M.L., Anderson, K.S., and Forrest, S.E.
Creating accessible introductory-geology field trips

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities

105-108 Bevier, M.L., Thompson, J.C., Evenchick, C.A., and Wyss, J.A.
Making geoscience relevant to First Nations' students from the north coast of British Columbia

109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems

113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers
117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum
294 Riggs, E.M.
Geoscience versus the spread of psuedoscience [Letter]
304-307 Slater, T.F., Goering, K., and Slater, K.H.
Science picnics for a lifelong-learning community
456-459 Hall-Beyer, M.C.
Field geology for the national park visitor – Luring a general audience into research

Education – Testing and Evaluation

68 Macdonald, H.
Announcement of workshops on effective and innovative teaching
102 Shea, J.H.
Progress on science-education standards [Editorial]
202 Shea, J.H.
Student evaluations of teaching [Editorial]
238-242 Astwood, P.M., and Slater, T.F.
Effectiveness and management of portfolio assessment in high-enrollment courses
348 Sykes, C.J.
Food for thought
372 Kopp, O.C.
Student evaluations [Letter]

Education – Undergraduate

2 Shea, J.H.
The trivialization of factual knowledge [editorial]
27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts
49-51 Ethington, R., and Freeman, T.
Tom Freeman – 1996 Neil Miner awardee
72 Manduca, C.A.
Announcement of Keck Geology Consortium research opportunities
88 Macdonald, H.
Announcement of workshop on innovative teaching and course design
89 Anonymous
Free NAGT memberships for outstanding teaching assistants
104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities
109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems
133-136 Howe, R.C.
Geologic contacts
147-149 Miller, J.W. JR., and Manns, M.L.
Expert systems as a tool for teaching mineral and rock identification
153-156 Smith, J.V.
A non-hierarchical rock-identification scheme
157-161 Stern, L.A., Chamberlain, C.P., Blum, J.D., and Fogel, M.L.
Isotopic lessons in a beer bottle
161 Anonymous
Announcement of free NAGT memberships for outstanding undergraduate and graduate teaching assistants
202 Shea, J.H.
Student evaluations of teaching [Editorial]
205-206 Amenta, R.V., Holyoke, C.W., Krohn, T.G.M., Bonder, M.J., and Leopold, M.C.
Undergraduate research in petrology approached through computer modeling of fabric evolution in igneous rocks
207-210 Caprariis, P.P. de
Impediments to providing scientific literacy to students in introductory survey courses
211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards
216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses
221-224 Dickinson, W.W., and Hill, N.L.
An introductory field exercise on topographic mapping
234-237 Drake, J.C., Worley, I.A., and Mehrtens, C.J.
An introductory-level field-based course in geology and botany
238-242 Astwood, P.M., and Slater, T.F.
Effectiveness and management of portfolio assessment in high-enrollment courses
246-251 Gore, P.J.W.
Using the world-wide web in the geology classroom
268 Van Beuren, V., and Tewksbury, B.
Call for activities for environmental geosciences laboratory manual
269-271 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 7. Fictional accounts of the origin of Darcy's law
308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes
314-316 Wells, N.A.
Class journals, grading writing, and teaching writing style
344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction
349-353 Johnson, M.C., and Guth, P.L.
A realistic microcomputer exercise designed to teach geologic reasoning
354-358 O'Connell, S.B.
Communicating science in general-education science courses with popular-science books
359-362 Hodder, A.P.W.
A geotechnical approach to weathering simulation
402 Shea, J.H.
Beginning a new academic year [Editorial]
404-411 Rich, C.C., and Onasch, C.M.
An introductory-geology laboratory exercise on ground-water-pollution potential using the DRASTIC system
412-414 King, H.M., and Dodson, R.L.
Integrating subdisciplines into upper-level geology courses

Education – (by) Writing and Speaking

314-316 Wells, N.A.
Class journals, grading writing, and teaching writing style

344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction

Engineering and Environmental Geology

27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts
54-59 Picard, M.D.
Fossil fuels inventory – Into the cold and dark?
225-228 Hodder, A.P.W.
The cost of earthquakes
228 Sagan, C.
Food for thought
238-242 Astwood, P.M., and Slater, T.F.
Effectiveness and management of portfolio assessment in high-enrollment courses
276 Gross, P.R., and Levitt, N.
Food for thought
307 Anonymous
Food for thought
369-372 Rose, S.E.
A spreadsheet approach to the hydrological cycle
373-377 Picard, M.D.
Vaiont redux
404-411 Rich, C.C., and Onasch, C.M.
An introductory-geology laboratory exercise on ground-water-pollution potential using the DRASTIC system
447-450 Bluth, G.J.S., and Young, C.T.
An applied geophysics laboratory for introductory environmental-geology courses

Errata

87 Antenucci, J.
Erratum

Extraterrestrial Geology

167-172 Megzger, E.P.
The STRATegy COLUMN for precollege science teachers – Expand your universe
216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses
470-472 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – The Journal of Areological Education

Food for thought

26 Guilder, G.
116 Henry, W.A. III
132 Davies, P.
146 Shneour, E.A.
152 Sagan, C.
156 Trefil, J.
180 Lindley, D.
197 Bauer, H.H.
206 Shea, J.H.
215 Cromer, A.
224 Weiner, J.
228 Sagan, C.
237 Rowan-Robinson, M.
271 Trefil, J.
276 Gross, P.R., and Levitt, N.
291 Frodeman, R.
307 Anonymous
313 Johnson, G.
316 Trefil, J.
330 Frodeman, R.
343 Sagan, C., and Druyan, A.
348 Sykes, C.J.
368 Davies, P.
385 Shanker, A.
396 Thorne, K.S.
424 Cromer, A.
459 Lindley, D.

Geochemistry

157-161 Stern, L.A., Chamberlain, C.P., Blum, J.D., and Fogel, M.L.
Isotopic lessons in a beer bottle
243-245 Aydal, D., Kilinc, A.I., and Phillips, M.
Using powder x-ray diffraction in the undergraduate curriculum to determine total iron in rocks and minerals
322-325 Foos, A.M.
Integration of a class research project into a traditional geochemistry lab course
359-362 Hodder, A.P.W.
A geotechnical approach to weathering simulation

Geochronology

156 Trefil, J.
Food for thought

Geology (general)

137-146 Rosenberg, G.D.
A lesson in plate tectonics from art
162-165 Picard, M.D.
Mountain notes
363-368 Wittke, J.H.
A journey to Tibet and continental collision
415-424 Mirsky, A.
Influence of geologic factors on ancient Egyptian civilization
464-468 Picard, M.D.
Velma

Geology – Employment

192 Anonymous
Announcement of geoscience-education position opening at Georgia State University, Atlanta

Geology – Field Trips & Field Study

4-9 Cooke, M.L., Anderson, K.S., and Forrest, S.E.
Creating accessible introductory-geology field trips
27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts
38-45 Philpotts, A.R., Gray, N.H., Carroll, M., Steinen, R., and Reid, J.B.
The electronic total station – A versatile, revolutionary new geological mapping tool
49-51 Ethington, R., and Freeman, T.
Tom Freeman – 1996 Neil Miner awardee
69-70 Schneiderman, J.S.
1996 NAGT Summer Field-Course Program report
71-72 Paull, R.K., and Paull, R.A.
1996 NAGT-USGS Cooperative Summer Field-Training Program
113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers
133-136 Howe, R.C.
Geologic contacts
221-224 Dickinson, W.W., and Hill, N.L.
An introductory field exercise on topographic mapping
234-237 Drake, J.C., Worley, I.A., and Mehrtens, C.J.
An introductory-level field-based course in geology and botany
252-254 Picard, M.D.
A week in April
322-325 Foos, A.M.
Integration of a class research project into a traditional geochemistry lab course
331-336 Hayward, R.K., Shebesta, D.Y., and Lowell, T.V.
Computerized image analysis of outcrops
363-368 Wittke, J.H.
A journey to Tibet and continental collision

440-446 Stockman, S.A., Sauber, J.M., and Linscheid, E.K.
A high school and NASA join forces to investigate the Alaska/Aleutian subduction zone near Kodiak Island
456-459 Hall-Beyer, M.C.
Field geology for the national park visitor – Luring a general audience into research
478-479 Astwood, P.M.
1997 NAGT Summer Field-Course Program

Geology – Literature and Libraries

52-53 Pinet, P., and Weiner, J.
Jonathan Weiner – 1996 James H. Shea awardee
74-76 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 5. Crystallization temperature and weathering susceptibility
89 Trent, D.D.
Have you read . . . ?
162-165 Picard, M.D.
Mountain notes
177-179 Wampler, J.A.
Misconceptions – A column about errors in geoscience textbooks: 6. Misconceptions of the hydraulic factors of river discharge
194 Trent, D.D.
Have you read . . . ?
252-254 Picard, M.D.
A week in April
268 Van Beuren, V., and Tewksbury, B.
Call for activities for environmental geosciences laboratory manual
269-271 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 7. Fictional accounts of the origin of Darcy's law
373-377 Picard, M.D.
Vaiont redux
460-462 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 9. Misconceptions of ground-water's capillary fringe
464-468 Picard, M.D.
Velma

Geology – Professional Affairs & Public Affairs

415-424 Mirsky, A.
Influence of geologic factors on ancient Egyptian civilization

Geology – Summer Field Courses

69-70 Schneiderman, J.S.
1996 NAGT Summer Field-Course Program report
71-72 Paull, R.K., and Paull, R.A.
1996 NAGT-USGS Cooperative Summer Field-Training Program
229-234 Ettensohn, F.R.
An experiment in collaborative mapping at geology field camp

Geology – Teaching and Curriculum

2 Shea, J.H.
The trivialization of factual knowledge [Editorial]
4-9 Cooke, M.L., Anderson, K.S., and Forrest, S.E.
Creating accessible introductory-geology field trips
73 Christman, R.A.
Call for nominations for Neil Miner Award
74-76 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 5. Crystallization temperature and weathering susceptibility
102 Shea, J.H.
Progress on science-education standards [Editorial]
104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities
105-108 Bevier, M.L., Thompson, J.C., Evenchick, C.A., and Wyss, J.A.
Making geoscience relevant to First Nations' students from the north coast of British Columbia
109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems
117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum
123-128 Spencer, P.K.
The method of multiple working hypotheses in undergraduate education with an example of its application and misapplication
129-132 Orion, N., Ben-Chaim, D., and Kali, Y.
Relationship between earth-science education and spatial visualization
147-149 Miller, J.W. Jr., and Manns, M.L.
Expert systems as a tool for teaching mineral and rock identification
153-156 Smith, J.V.
A non-hierarchical rock-identification scheme
177-179 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 6. Misconceptions of the hydraulic factors of river discharge
180 Jorstad, R.B.
Down-to-Earth software reviews
193 Tewksbury, B.
Call for examples of effective and innovative teaching techniques for NAGT publication
205-206 Amenta, R.V., Holyoke, C.W., Krohn, T.G.M., Bonder, M.J., and Leopold, M.C.
Undergraduate research in petrology approached through computer modeling of fabric evolution in igneous rocks
211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards
216-220 Cordell, B.M.
A lunar-base lab for geology or astronomy courses
229-234 Ettensohn, F.R.
An experiment in collaborative mapping at geology field camp
246-251 Gore, P.J.W.
Using the world-wide web in the geology classroom
272 Tewksbury, B.
Call for examples of effective and innovative teaching in the geosciences
293-294 Leveson, D.
The trivialization of factual knowledge [Letter]
295-297 Tewksbury, B.
1997-98 NAGT Distinguished Speakers Program
322-325 Foos, A.M.
Integration of a class research project into a traditional geochemistry lab course
326-330 Orndorff, R.L., and Stamm, J.F.
A laboratory exercise introducing the concept of effective discharge in fluvial geomorphology

344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction
354-358 O'Connell, S.B.
Communicating science in general-education science courses with popular-science books
378-380 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 8. Wrong-way precession as a consequence of not thinking things through
402 Shea, J.H.
Beginning a new academic year [Editorial]
404-411 Rich, C.C., and Onasch, C.M.
An introductory-geology laboratory exercise on ground-water-pollution potential using the DRASTIC system
412-414 King, H.M., and Dodson, R.L.
Integrating subdisciplines into upper-level geology courses

Geology – Women and Minorities

104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities
105-108 Bevier, M.L., Thompson, J.C., Evenchick, C.A., and Wyss, J.A.
Making geoscience relevant to First Nations' students from the north coast of British Columbia
109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems
113-116 Dubiel, R.F., Hasiotis, S.T., and Semken, S.C.
Hands-on geology for Navajo Nation teachers
117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum

Geophysics (general)

156 Trefil, J.
Food for thought
451-455 Guth, P.L.
Teaching plate tectonics and marine geophysics to introductory students with a microcomputer

Geophysics – Applied

447-450 Bluth, G.J.S., and Young, C.T.
An applied geophysics laboratory for introductory environmental-geology courses

Geophysics – Seismology

225-228 Hodder, A.P.W.
The cost of earthquakes
308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

Geophysics – Solid Earth

440-446 Stockman, S.A., Sauber, J.M., and Linscheid, E.K.
A high school and NASA join forces to investigate the Alaska/Aleutian subduction zone near Kodiak Island

History of Geology

54-59 Picard, M.D.
Fossil fuels inventory – Into the cold and dark?
123-128 Spencer, P.K.
The method of multiple working hypotheses in undergraduate education with an example of its application and misapplication
137-146 Rosenberg, G.D.
A lesson in plate tectonics from art
156 Trefil, J.
Food for thought
277 American Association of Petroleum Geologists
291 Frodeman, R.
Food for thought
337-343 Reaser, D.F.
Robert Thomas Hill – Father of the Texas Cretaceous
425-427 Shepherd, R.G., and Ellis, B.N.
Leonardo da Vinci's tree and the law of channel widths – Combining quantitative geomorphology and art in education

History of Science

146 Shneour, E.A.
Food for thought
152 Sagan, C.
Food for thought
156 Trefil, J.
Food for thought
224 Weiner, J.
Food for thought
330 Frodeman, R.
Food for thought
337-343 Reaser, D.F.
Robert Thomas Hill – Father of the Texas Cretaceous
396 Thorne, K.S.
Food for thought
424 Cromer, A.
Food for thought
425-427 Shepherd, R.G., and Ellis, B.N.
Leonardo da Vinci's tree and the law of channel widths – Combining quantitative geomorphology and art in education
459 Lindley, D.
Food for thought

Hydrogeology and Hydrology

1-2 Thompson, L., and Dickfoss, P.
Cover photograph of laminated glacial ice in the Pamir Firn Plateau, Tadzhikistan
27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts
177-179 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 6. Misconceptions of the hydraulic factors of river discharge
268 Van Beuren, V., and Tewksbury, B.
Call for activities for environmental geosciences laboratory manual
269-271 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 7. Fictional accounts of the origin of Darcy's law
301-302 Wittke, J.H.
Cover photograph of travertine-terraced springs at Huanglong National Park, Tibet
326-330 Orndorff, R.L., and Stamm, J.F.
A laboratory exercise introducing the concept of effective discharge in fluvial geomorphology

369-372 Rose, S.E.
A spreadsheet approach to the hydrological cycle
404-411 Rich, C.C., and Onasch, C.M.
An introductory-geology laboratory exercise on ground-water-pollution potential using the DRASTIC system
425-427 Shepherd, R.G., and Ellis, B.N.
Leonardo da Vinci's tree and the law of channel widths – Combining quantitative geomorphology and art in education
447-450 Bluth, G.J.S., and Young, C.T.
An applied geophysics laboratory for introductory environmental-geology courses
460-462 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 9. Misconceptions of ground-water's capillary fringe

Letters to the Editor

293-294 Leveson, D.
The trivialization of factual knowledge
294 Riggs, E.M.
Geoscience versus the spread of psuedoscience
372 Kopp, O.C.
Student evaluations

Marine Geology and Oceanography

262-267 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – New views of the sea floor

Memorials

Meteorology

1-2 Thompson, L., and Dickfoss, P.
Cover photograph of laminated glacial ice in the Pamir Firn Plateau, Tadzhikistan

Mineralogy and Crystallography

65-68 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – From mountains to monsoons
147-149 Miller, J.W. JR., and Manns, M.L.
Expert systems as a tool for teaching mineral and rock identification
180 Jorstad, R.B.
Down-to-Earth software reviews
205-206 Amenta, R.V., Holyoke, C.W., Krohn, T.G.M., Bonder, M.J., and Leopold, M.C.
Undergraduate research in petrology approached through computer modeling of fabric evolution in igneous rocks
243-245 Aydal, D., Kilinc, A.I., and Phillips, M.
Using powder x-ray diffraction in the undergraduate curriculum to determine total iron in rocks and minerals
317-321 Garlick, G.D.
Reflections on x-ray diffraction
397 Jorstad, R.B.
Down-to-Earth software reviews

Miscellaneous and Mathematical Geology

22-26 Turflinger, J., and Drummond, C.
Analysis of bubble sizes in vesicular basalt
173-176 Schimmrich, S.H.
Exploring geology on the world-wide web – Hydrology and hydrogeology
268 Van Beuren, V., and Tewksbury, B.
Call for activities for environmental geosciences laboratory manual
269-271 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 7. Fictional accounts of the origin of Darcy's law
317-321 Garlick, G.D.
Reflections on x-ray diffraction
326-330 Orndorff, R.L., and Stamm, J.F.
A laboratory exercise introducing the concept of effective discharge in fluvial geomorphology
369-372 Rose, S.E.
A spreadsheet approach to the hydrological cycle
428-439 Berger, W.H.
Experimenting with ice-age cycles in a spreadsheet

Miscellaneous announcements

72 Manduca, C.A.
Announcement of Keck Geology Consortium research opportunities

NAGT (general)

60 Tewksbury, B.
Call for examples for book on effective and innovative teaching in the geosciences
64 Macdonald, H.
Call for volunteers to serve NAGT
68 Macdonald, H.
Announcement of workshops on effective and innovative teaching
88 Macdonald, H.
Announcement of workshop on innovative teaching and course design
89 Anonymous
Free NAGT memberships for outstanding teaching assistants
89 Harder, V.
NAGT on the WWW
91-94 Shea, J.H.
Instructions to contributors [to *JGE*]
95-96 Tewksbury, B.
Photographs and biographical sketches of NAGT officers
98 Christman, R.A.
List of NAGT officers, with addresses, telephone numbers, and e-mail addresses
99 Christman, R.A.
NAGT membership application blank
104-105 Semken, S.C.
NAGT/GSA Symposium on geoscience education in native American communities
161 Anonymous
Announcement of free NAGT memberships for outstanding undergraduate and graduate teaching assistants
166 Christman, R.A.
Call for nominations for 1997 NAGT elections
186 Anonymous
Ad for NAGT slide sets and poster
193 Tewksbury, B.
Call for examples of effective and innovative teaching techniques for NAGT publication
204 Tewksbury, B.
President's letter on dues increase
206 Shea, J.H.
JGE reaches publishing milestone

272 Tewksbury, B.
Call for examples of effective and innovative teaching in the geosciences
295-297 Tewksbury, B.
1997-98 NAGT Distinguished Speakers Program
363-368 Wittke, J.H.
A journey to Tibet and continental collision
391 NAGT environmental geoscience lab manual
462 Christman, R.A.
Annual statement of ownership, management and circulation
477 Advertisement for NAGT slide set

NAGT – Affairs & Meetings

46-48 Macdonald, H.
1996 NAGT Presidential address – Geoscience education and modern career paths
196-197 Wheeler, G.
Report from the Executive Committee meeting in Denver (October 1996)
197 Wheeler, G.
NAGT section liaison program
292 Anonymous
NAGT-sponsored events at 1997 annual meeting of GSA
397 Wheeler, G.
Report from the NAGT Executive Committee, New Orleans, LA, April, 1997

NAGT – James Shea Award

52-53 Pinet, P., and Weiner, J.
Jonathan Weiner – 1996 James H. Shea awardee
176 Anonymous
Call for nominations for 1997 James H. Shea Award
464-468 Picard, M.D.
Velma

NAGT – Neil Miner Award

49-51 Ethington, R., and Freeman, T.
Tom Freeman – 1996 Neil Miner awardee
73 Christman, R.A.
Call for nominations for Neil Miner Award

NAGT – OEST Program

255-261 Anonymous
1996 Outstanding Earth-Science Teacher awards

NAGT – Sections

97 Christman, R.A.
List of NAGT section officers
255-261 Anonymous
1996 Outstanding Earth-Science Teacher awards

NAGT – Summer-Field-Course Scholarship Program

69-70 Schneiderman, J.S.
1996 NAGT Summer Field-Course Program report
478-479 Astwood, P.M.
1997 NAGT Summer Field-Course Program

NAGT – USGS Cooperative Summer Field Program

71-72 Paull, R.K., and Paull, R.A.
1996 NAGT-USGS Cooperative Summer Field-Training Program

National Aeronautics and Space Administration

National Science Foundation

68 Macdonald, H.
Announcement of workshops on effective and innovative teaching
81 Cambrian Systems, Inc.
Geoscience education through intelligent tutors (GETIT)

Paleontology (general)

89 Trent, D.D.
Have you read . . . ?
123-128 Spencer, P.K.
The method of multiple working hypotheses in undergraduate education with an example of its application and misapplication
162-165 Picard, M.D.
Mountain notes

Paleontology – Invertebrate

325 Fischman, S.
Cartoon on trilobites

Paleontology – Paleobotany

Paleontology – Vertebrate

21 Fischman, S.
Cartoon on La Brea fossils and contemporary television
220 Fischman, S.
Cartoon on T. rex and self esteem
411 Fischman, S.
Cartoon about hot-blooded dinosaurs

Petrology (general)

243-245 Aydal, D., Kilinc, A.I., and Phillips, M.
Using powder x-ray diffraction in the undergraduate curriculum to determine total iron in rocks and minerals

Petrology – Igneous and Metamorphic

22-26 Turflinger, J., and Drummond, C.
Analysis of bubble sizes in vesicular basalt
74-76 Wampler, J.M.
Misconceptions – A column about errors in geoscience textbooks: 5. Crystallization temperature and weathering susceptibility
205-206 Amenta, R.V., Holyoke, C.W., Krohn, T.G.M., Bonder, M.J., and Leopold, M.C.
Undergraduate research in petrology approached through computer modeling of fabric evolution in igneous rocks

Petrology – Sedimentary

90 Friedman, G.M.
Milankovitch theory in sedimentary geology [Letter]
180 Jorstad, R.B.
Down-to-Earth software reviews

Philosophy of Science

109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems
117-122 Murray, J.J.
Ethnogeology and its implications for the aboriginal geoscience curriculum
123-128 Spencer, P.K.
The method of multiple working hypotheses in undergraduate education with an example of its application and misapplication

132 Davies, P.
Food for thought
152 Sagan, C.
Food for thought
180 Lindley, D.
Food for thought
291 Frodeman, R.
Food for thought
302 Shea, J.H.
The "science wars" of the late 20th century [Editorial]
313 Johnson, G.
Food for thought
316 Trefil, J.
Food for thought
330 Frodeman, R.
Food for thought
368 Davies, P.
Food for thought

Plate Tectonics

65-68 Metzger, E.P.
The STRATegy COLUMN for precollege science teachers – From mountains to monsoons
137-146 Rosenberg, G.D.
A lesson in plate tectonics from art
363-368 Wittke, J.H.
A journey to Tibet and continental collision
440-446 Stockman, S.A., Sauber, J.M., and Linscheid, E.K.
A high school and NASA join forces to investigate the Alaska/Aleutian subduction zone near Kodiak Island
451-455 Guth, P.L.
Teaching plate tectonics and marine geophysics to introductory students with a microcomputer

Poetry

165 Picard, M.D.
Black-billed magpies (a poem)

Pseudoscience

294 Riggs, E.M.
Geoscience versus the spread of psuedoscience [Letter]
313 Johnson, G.
Food for thought

Reviews – Articles

194 Trent, D.D.
Have you read . . . ?

Reviews – Books

82-87 Langenheim, R.L. Jr., and Diana, C.M.
Books for geoscientists
90 Friedman, G.M.
Milankovitch theory in sedimentary geology [Letter]
187-192 Langenheim, R.L. Jr., and Diana, C.M.
Books for geoscientists
285-291 Langenheim, R.L. Jr., and Diana, C.M.
Books for geoscientists
392-396 Langenheim, R.L. Jr., and Diana, C.M.
Books for geoscientists
480-484 Langenheim, R.L. Jr., and Diana, C.M.
Books for geoscientists

Reviews – Computer Software

397 Jorstad, R.B.
Down-to-Earth software reviews

Reviews – Films

195-196 Spencer, D.A.
Videos for geoscientists – Geotectonics in Himalayas

Reviews – Museums

77-81 Romey, W.D.,
The museum and gallery corner
181-185 Romey, W.D.
The museum and gallery corner
278-284 Romey, W.D.
The museum and gallery corner
386-390 Romey, W.D.
The museum and gallery corner
473-477 Romey, W.D.
The museum and gallery corner

Reviews by Locality

An entry here means that at least one museum at that locality was reviewed in the set of reviews beginning on the page given.

77 Arkansas
181 Ascension Island
473 Colorado
181 Falkland Islands
77 Florida
473 France
278 Georgia
386 Greece
473 Grenada, W.I.
278 Indiana
181 Iowa
386 Italy
77 Massachusetts
181 Massachusetts
181 New York
278 New York
386 New York
181 Ohio
386 Ohio
278 Pennsylvania
278 Russia
278 South Carolina
181 South Georgia Island
386 Spain
181 Tristan da Cunha Island
77 Washington, DC
278 West Virginia

Science

109-112 Semken, S.C., and Morgan, F.
Navajo pedagogy and earth systems
132 Davies, P.
Food for thought
146 Shneour, E.A.
Food for thought
152 Sagan, C.
Food for thought
180 Lindley, D.
Food for thought
197 Bauer, H.H.
Food for thought
215 Cromer, A.
Food for thought
237 Rowan-Robinson, M.
Food for thought
271 Trefil, J.
Food for thought
276 Gross, P.R., and Levitt, N.
Food for thought
302 Shea, J.H.
The "science wars" of the late 20th century [Editorial]
313 Johnson, G.
Food for thought
316 Trefil, J.
Food for thought
330 Frodeman, R.
Food for thought
368 Davies, P.
Food for thought
396 Thorne, K.S.
Food for thought
424 Cromer, A.
Food for thought

459 Lindley, D.
Food for thought

Stratigraphy, Historical Geology, Paleoecology

101-102 Semken, S.C.
Cover photograph of Monument Valley, Arizona
133-136 Howe, R.C.
Geologic contacts
337-343 Reaser, D.F.
Robert Thomas Hill – Father of the Texas Cretaceous
381-385 Metzger, E.P.
The STRATegy COLUMN for pre-college science teachers – Paper cores and problem solving

Structural Geology

10-21 Kali, Y., Orion, N., and Mazor, E.
Software for assisting high-school students in the spatial perception of geological structures
38-45 Philpotts, A.R., Gray, N.H., Carroll, M., Steinen, R., and Reid, J.B.
The electronic total station – A versatile, revolutionary new geological mapping tool
129-132 Orion, N., Ben-Chaim, D., and Kali, Y.
Relationship between earth-science education and spatial visualization
221-224 Dickinson, W.W., and Hill, N.L.
An introductory field exercise on topographic mapping
337-343 Reaser, D.F.
Robert Thomas Hill – Father of the Texas Cretaceous
349-353 Johnson, M.C., and Guth, P.L.
A realistic microcomputer exercise designed to teach geologic reasoning
401-402 Carson, R.J.
Cover photograph of folded early Tertiary clastics along Adriatic coast

Subsurface Geology

Surficial Geology (general)

211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards

Surficial Geology – Geomorphology

27-37 Field, J.J., and Pearthree, P.A.
Geomorphologic flood-hazard assessment of alluvial fans and piedmonts
101-102 Semken, S.C.
Cover photograph of Monument Valley, Arizona
201-202 Schmidt, M.F. Jr.
Cover photograph of cliffs on the Na Pali Coast, Hawaii
301-302 Wittke, J.H.
Cover photograph of travertine-terraced springs at Huanglong National Park, Tibet
326-330 Orndorff, R.L., and Stamm, J.F.
A laboratory exercise introducing the concept of effective discharge in fluvial geomorphology
344-348 Rice-Snow, S.
Terrain description as a collaborative-writing component in undergraduate geomorphology instruction
373-377 Picard, M.D.
Vaiont redux
415-424 Mirsky, A.
Influence of geologic factors on ancient Egyptian civilization
425-427 Shepherd, R.G., and Ellis, B.N.
Leonardo da Vinci's tree and the law of channel widths – Combining quantitative geomorphology and art in education

Surficial Geology – Quaternary Geology

1-2 Thompson, L., and Dickfoss, P.
Cover photograph of laminated glacial ice in the Pamir Firn Plateau, Tadzhikistan
61-63 Schimmrich, S.H.
Exploring geology on the world-wide web – Glaciers and climate change
90 Friedman, G.M.
Milankovitch theory in sedimentary geology [Letter]
294 Riggs, E.M.
Geoscience versus the spread of psuedoscience [Letter]
331-336 Hayward, R.K., Shebesta, D.Y., and Lowell, T.V.
Computerized image analysis of outcrops
428-439 Berger, W.H.
Experimenting with ice-age cycles in a spreadsheet

Surficial Geology – Soils

Volcanoes and Volcanism

22-26 Turflinger, J., and Drummond, C.
Analysis of bubble sizes in vesicular basalt
201-202 Schmidt, M.F. Jr.
Cover photograph of cliffs on the Na Pali Coast, Hawaii
211-215 Abolins, M.J.
Using free digital data to introduce volcanic hazards
308-313 Sullivan, M.A., and Dilek, Y.
Enhancing scientific literacy through the use of information technology in introductory geoscience classes

Author Index to Volume 45 (1997)

211 Abolins, M.J.
83 Agnew, A.
288 Alberstadt, L.
205 Amenta, R.V.
4 Anderson, K.S.
87 Antenucci, J.
238 Astwood, P.M.
478 Astwood, P.M.
187 Aswathanarayana, U.
243 Aydal, D.
290 Bakker, R.T.
197 Bauer, H.H.
129 Ben-Chaim, D.
428 Berger, W.H.
105 Bevier, M.L.
157 Blum, J.D.
447 Bluth, G.J.S.
205 Bonder, M.J.
289 Boreham, P.W.
87 Bornhorst, T.J.
191 Bosence, D.W.J.
191 Bridges, P.H.
484 Brost, L.
82 Burton, E.A.
150 Busse, P.L.
207 Caprariis, P.P. de
393 Carozzi, A.V.
394 Carozzi, A.V.
480 Carozzi, A.V.
188 Carr, J.R.
38 Carroll, M.
401 Carson, R.J.
188 Cattermole, P.
157 Chamberlain, C.P.
73 Christman, R.A.
98 Christman, R.A
99 Christman, R.A
166 Christman, R.A.
462 Christman, R.A.
83 Coch, N.K.
4 Cooke, M.L.
84 Corbett, R.G.
216 Cordell, B.M.
77 Corgan, J.X.

278 Corgan, J.X.
282 Corgan, J.X.
283 Corgan, J.X.
284 Corgan, J.X.
288 Corgan, J.X.
215 Cromer, A.
424 Cromer, A.
285 Cygan, R.T.
484 Dahlström, Å.
132 Davies, P.
368 Davies, P.
287 Davis, G.H.
86 Derbyshire, E.
396 Dexter, J.M.
82 Diana, C.M.
187 Diana, C.M.
285 Diana, C.M.
290 Diana, C.M.
392 Diana, C.M.
480 Diana, C.M.
85 Dickey, J.S.
1 Dickfoss, P.
221 Dickinson, W.W.
261 Dilek, Y.
308 Dilek, Y.
482 Dilek, Y.
412 Dodson, R.L.
234 Drake, J.C.
22 Drummond, C.
343 Druyan, A.
113 Dubiel, R.F.
86 Ehlers, J.
190 Elias, S.A.
480 Ellenberger, F.
425 Ellis, B.N.
89 Erwin, D.H..
49 Ethington, R.
229 Ettensohn, F.R.
287 Eusden, J.D. Jr.
105 Evenchick, C.A.
27 Field, J.J.
395 Finkl, C.W. Jr.
21 Fischman, S.
122 Fischman, S.
220 Fischman, S.
325 Fischman, S.
411 Fischman, S.
157 Fogel, M.L.
322 Foos, A.M.
4 Forrest, S.E.
393 Foutz, D.R.
190 Francis, C.A.
49 Freeman, T.
90 Friedman, G.M.
291 Frodeman, R.
330 Frodeman, R.
317 Garlick, G.D.
86 Gibbard, P.L.
285 Gill, R.
304 Goering, K.
246 Gore, P.J.W.
38 Gray, N.H.
86 Grimley, D.A.
276 Gross, P.R.
26 Guilder, G.
286 Gupta, A.
349 Guth, P.L.
451 Guth, P.L.
456 Hall-Beyer, M.C
85 Haneberg, W.C.
89 Harder, V.
113 Hasiotis, S.T.
331 Hayward, R.K.
194 Helvarg, D.
116 Henry, W.A. III
481 Herrstrom, E.A.
221 Hill, N.L.
225 Hodder, A.P.W.
359 Hodder, A.P.W.
289 Hogarth, D.D.
205 Holyoke, C.W.
133 Howe, R.C.
393 Hsü, K.J.
393 Huppert, G.
392 Hutchinson, C.F.
100 Ireton, M.F.
190 Jacobson, R.J.
313 Johnson, G.
349 Johnson, M.C.
394 Johnson, W.H.
260 Jones, J.O.
180 Jorstad, R.B.
397 Jorstad, R.B.
83 Judson, S.
10 Kali, Y.
129 Kali, Y.
87 Kazansky, V.I.
190 Khomyakov, A.P.
243 Kilinc, A.I.
412 King, H.M.
395 Klein, G.D.
483 Knauss, J.A.
372 Kopp, O.C.
86 Kozarski, S.
205 Krohn, T.G.M.
480 Lancaster, N.
82 Langenheim, R.L. Jr.
187 Langenheim, R.L. Jr.
285 Langenheim, R.L. Jr.
392 Langenheim, R.L. Jr.
480 Langenheim, R.L. Jr.
484 Langenheim, R.L. Jr.
191 Lasemi, Z.
205 Leopold, M.C.
293 Leveson, D.
276 Levitt, N.
180 Lindley, D.
459 Lindley, D.
440 Linscheid, E.K.
288 Lomnitz, C.
331 Lowell, T.V.
84 Lynch, K.
281 Lyon, S.K.
46 Macdonald, H.
64 Macdonald, H.
68 Macdonald, H.
88 Macdonald, H.
481 Macdougall, J.D.
187 Mackenzie, F.T.
72 Manduca, C.A.
147 Manns, M.L.
285 Maynard, J.B.
10 Mazor, E.
291 McCall, G.J.H.
234 Mehrtens, C.J.
65 Metzger, E.P.
167 Metzger, E.P.
262 Metzger, E.P.
381 Metzger, E.P.
470 Metzger, E.P.
147 Miller, J.W. Jr.
483 Miller, M.C.
415 Mirsky, A.
289 Mitchell, J.G.
194 Montavalli, J.
191 Monty, C.L.V.
109 Morgan, F.
392 Mouat, D.A.
117 Murray, J.J.
189 Mursky, G.
394 Newman, J.K.
482 Nicolas, A.
188 Oertel, G.
404 Onasch, C.M.
10 Orion, N.
129 Orion, N.
326 Orndorff, R.L.
354 O'Connell, S.B.
71 Paull, R.A.
71 Paull, R.K.
84 Pavlis, T.
27 Pearthree, P.A.
243 Phillips, M.
38 Philpotts, A.R.
54 Picard, M.D.
162 Picard, M.D.
165 Picard, M.D.
252 Picard, M.D.
373 Picard, M.D.
464 Picard, M.D.
52 Pinet, P.
82 Pirie, R.G.
83 Potter, D.B. Jr.
191 Pratt, B.R.
291 Prescott, R.W.
480 Pye, K.
286 Ransom, R.C.
337 Reaser, D.F.
38 Reid, J.B.
287 Reynolds, S.J.
344 Rice-Snow, S.
404 Rich, C.C.
83 Richardson, S.M.
294 Riggs, E.M.
77 Romey, W.D.
181 Romey, W.D.
278 Romey, W.D.
386 Romey, W.D.
473 Romey, W.D.
369 Rose, S.E.
137 Rosenberg, G.D.
188 Rossbacher, L.A.
237 Rowan-Robinson, M.
152 Sagan, C.
228 Sagan, C.
343 Sagan, C.
440 Sauber, J.M.
61 Schimmrich, S.H.
173 Schimmrich, S.H.
273 Schimmrich, S.H.
201 Schmidt, M.F. Jr.
289 Schneer, C.J.
69 Schneiderman, J.S.
396 Scovil, J.A.
101 Semken, S.C.
104 Semken, S.C.
109 Semken, S.C.
113 Semken, S.C.
385 Shanker, A.
2 Shea, J.H.
91 Shea, J.H.
102 Shea, J.H.
202 Shea, J.H.
206 Shea, J.H.
206 Shea, J.H.
302 Shea, J.H.
402 Shea, J.H.
470 Shea, J.H.
485 Shea, J.H.
331 Shebesta, D.Y.
425 Shepherd, R.G.
146 Shneour, E.A.
304 Slater, K.H.
238 Slater, T.F.
304 Slater, T.F.
153 Smith, J.V.
195 Spencer, D.A.
123 Spencer, P.K.
326 Stamm, J.F.
38 Steinen, R.P.
157 Stern, L.A.
440 Stockman, S.A.
291 Stow, D.A.V.
308 Sullivan, M.A.
348 Sykes, C.J.
60 Tewksbury, B.
95 Tewksbury, B.
193 Tewksbury, B.
204 Tewksbury, B.
268 Tewksbury, B.
272 Tewksbury, B.
295 Tewksbury, B.
105 Thompson, J.C.
1 Thompson, L.
396 Thorne, K.S.
156 Trefil, J.
271 Trefil, J.
316 Trefil, J.
89 Trent, D.D.
194 Trent, D.D.
22 Turflinger, J.
288 Uyeda, S.
268 Van Buren, V.
285 Varentsov, I.M.
482 Vissers, R.L.M.
74 Wampler, J.M.
177 Wampler, J.M.
269 Wampler, J.M.
378 Wampler, J.M.
460 Wampler, J.M.
52 Weiner, J.
224 Weiner, J.
314 Wells, N.A.
85 West, T.R.
196 Wheeler, G.
197 Wheeler, G.
397 Wheeler, G.
189 Whitford-Stark, J.L.
392 Wilkins, D.
301 Wittke, J.H.
363 Wittke, J.H.
234 Worley, I.A.
86 Wright, H.E. Jr.
85 Wulff, J.I.
105 Wyss, J.A.
447 Young, C.T.